

1.

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5. A low coherent reflectometer comprising:
 - a light source;
 - an optical coupler having four ports, wherein beams output from the light source are input to a first port and are branched to produce measurement beams and local beams respectively so that the measurement beams are output from a second port and the local beams are output from a third port, and wherein reflected measurement beams input to the second port and reflected local beams input to the third port are combined, so that combined beams are output from a fourth port;
 - a dispersion shifted fiber that is arranged within a first optical path between the second port of the optical coupler and a measured optical circuit including a reflecting point;
 - a reflector that is arranged to terminate a second optical path including a spatial optical path for propagation of the local beams; and
 - a received light signal processor for receiving and processing the combined beams output from the fourth port of the optical coupler.
6. A low coherent reflectometer according to claim 5, wherein a length of the dispersion shifted fiber is made substantially equal to a length of the spatial optical path.
7. A low coherent reflectometer according to claim 5, wherein the reflector comprises a collimator lens and a reflecting mirror which are spaced apart at a prescribed distance in the spatial optical path, and wherein the collimator lens converts the local beams parallel beams, which propagate towards and are then reflected by the

reflecting mirror.

8. A low coherent reflectometer comprising:

a light source;

an optical bandpass filter for adjusting a full width at half maximum in spectrum of beams output from the light source;

an optical coupler having four ports, wherein the beams transmitted through the optical bandpass filter are input to a first port and are then branched to produce measurement beams and local beams so that the measurement beams are output from a second port and are transmitted through a first optical path towards a measured optical circuit including a reflecting point and the local beams are output from a third port and are transmitted through a second optical path including a spatial optical path, and wherein reflected measurement beams input to the second port and reflected local beams input to the third port are combined, so that combined beams are output from a fourth port;

a reflector that is arranged to terminate the spatial optical path of the second optical path; and

a received light signal processor for receiving and processing the combined beams output from the fourth port of the optical coupler.

9. A low coherent reflectometer according to claim 8, wherein the reflector comprises a collimator lens and a reflecting mirror which are spaced apart at a prescribed distance in the spatial optical path, and wherein the collimator lens converts the local beams to parallel beams, which propagate towards and are then reflected by the reflecting mirror, so that the reflected local beams are subjected to convergence by

1. 1. The first
 2. 2. The second
 3. 3. The third
 4. 4. The fourth
 5. 5. The fifth
 6. 6. The sixth
 7. 7. The seventh
 8. 8. The eighth
 9. 9. The ninth
 10. 10. The tenth
 11. 11. The eleventh
 12. 12. The twelfth
 13. 13. The thirteenth
 14. 14. The fourteenth
 15. 15. The fifteenth
 16. 16. The sixteenth
 17. 17. The seventeenth
 18. 18. The eighteenth
 19. 19. The nineteenth
 20. 20. The twentieth
 21. 21. The twenty-first
 22. 22. The twenty-second
 23. 23. The twenty-third
 24. 24. The twenty-fourth
 25. 25. The twenty-fifth
 26. 26. The twenty-sixth
 27. 27. The twenty-seventh
 28. 28. The twenty-eighth
 29. 29. The twenty-ninth
 30. 30. The thirtieth
 31. 31. The thirty-first
 32. 32. The thirty-second
 33. 33. The thirty-third
 34. 34. The thirty-fourth
 35. 35. The thirty-fifth
 36. 36. The thirty-sixth
 37. 37. The thirty-seventh
 38. 38. The thirty-eighth
 39. 39. The thirty-ninth
 40. 40. The fortieth
 41. 41. The forty-first
 42. 42. The forty-second
 43. 43. The forty-third
 44. 44. The forty-fourth
 45. 45. The forty-fifth
 46. 46. The forty-sixth
 47. 47. The forty-seventh
 48. 48. The forty-eighth
 49. 49. The forty-ninth
 50. 50. The fiftieth
 51. 51. The fifty-first
 52. 52. The fifty-second
 53. 53. The fifty-third
 54. 54. The fifty-fourth
 55. 55. The fifty-fifth
 56. 56. The fifty-sixth
 57. 57. The fifty-seventh
 58. 58. The fifty-eighth
 59. 59. The fifty-ninth
 60. 60. The sixtieth
 61. 61. The sixty-first
 62. 62. The sixty-second
 63. 63. The sixty-third
 64. 64. The sixty-fourth
 65. 65. The sixty-fifth
 66. 66. The sixty-sixth
 67. 67. The sixty-seventh
 68. 68. The sixty-eighth
 69. 69. The sixty-ninth
 70. 70. The seventieth
 71. 71. The seventy-first
 72. 72. The seventy-second
 73. 73. The seventy-third
 74. 74. The seventy-fourth
 75. 75. The seventy-fifth
 76. 76. The seventy-sixth
 77. 77. The seventy-seventh
 78. 78. The seventy-eighth
 79. 79. The seventy-ninth
 80. 80. The eightieth
 81. 81. The eighty-first
 82. 82. The eighty-second
 83. 83. The eighty-third
 84. 84. The eighty-fourth
 85. 85. The eighty-fifth
 86. 86. The eighty-sixth
 87. 87. The eighty-seventh
 88. 88. The eighty-eighth
 89. 89. The eighty-ninth
 90. 90. The ninetieth
 91. 91. The ninety-first
 92. 92. The ninety-second
 93. 93. The ninety-third
 94. 94. The ninety-fourth
 95. 95. The ninety-fifth
 96. 96. The ninety-sixth
 97. 97. The ninety-seventh
 98. 98. The ninety-eighth
 99. 99. The ninety-ninth
 100. 100. The hundredth

10. A low coherent reflectometer according to claim 7 or 9, wherein the reflecting mirror is made movable along an optical axis to vary the distance between the collimator lens and the reflecting mirror.